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SOURCE Die Wirtschaft.EXPERIMENT WITH HIGH-SPEED TURNING PROCESS

Publications concerning the development of a high-speed turning process in the USSR, especially by the Stalin Prize winners, Bortkevich and Bykov, have led to experiments with high-speed turning in the German Democratic Republic.

On 28 April, the activist Zabel (fnu) carried out high-speed turning experiments in Halle. He achieved a cutting speed of over 500 meters per minute.

On 4 May, the people-owned Wema plant in Berlin achieved the same results in experiments based on data furnished by Belov (fnu) of the USSR. For comparison, the experiments were made with turning tools with both positive and negative cutting angles. Recording devices attached to each of the tools, indicated heavy overloading when the ordinary type of cutting tool (positive angle) was used at high cutting speed, whereas the cutting tool used in the new process, which has a negative rake angle of 13 degrees, does not overload the machine.

At the Radeberg Plant in Sachsen, Erich Wirth, East Germany's champion high-speed turner, achieved a cutting speed of 1,450 meters per minute. He used a Niles lathe for his experiment.

East Germany's leading technologists and scientists are to investigate the new process and make their findings available to the entire industry.

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